

**IN THE UNITED STATES DISTRICT COURT  
FOR THE EASTERN DISTRICT OF TEXAS  
TYLER DIVISION**

MOSAID TECHNOLOGIES INC.,

Plaintiff,

v.

XILINX, INC.

Defendant.

C.A. No.: 6:12-cv-00847

JURY TRIAL DEMANDED

**AMENDED COMPLAINT FOR PATENT INFRINGEMENT**

Plaintiff MOSAID Technologies Inc. (“MOSAID”), by and through its undersigned counsel, for its Amended Complaint for Patent Infringement against Defendant Xilinx, Inc. (“Xilinx”) hereby states:

**THE PARTIES**

1. Plaintiff MOSAID Technologies Inc. is a corporation subject to the laws of Canada with its principal place of business at 11 Hines Road, Suite 203, Ottawa, Ontario, Canada K2K 2X1. MOSAID’s United States principal place of business is located at 5700 Granite Parkway, Suite 960, Plano, Texas 75024.

2. Defendant Xilinx, Inc. (“Xilinx”) is a Delaware corporation with its principal place of business at 2100 Logic Drive, San Jose, California 95124. Defendant Xilinx may be served through its registered agent, CT Corporation System, 350 N. St. Paul Street, Suite 2900, Dallas, TX 75201-4234. Xilinx is authorized to do business in the State of Texas, and regularly conducts such business within the State and within this judicial district by way of sales and product distributions.

### **JURISDICTION AND VENUE**

3. This is an action for patent infringement arising under the provisions of the Patent Laws of the United States of America, Title 35, United States Code.

4. Subject-matter jurisdiction over MOSAID's claims is conferred upon this Court by 28 U.S.C. § 1331 (federal question jurisdiction) and 28 U.S.C. § 1338(a) (patent jurisdiction).

5. This Court has personal jurisdiction over Xilinx, which has conducted and continues to conduct business in the State of Texas and in this Judicial District. Xilinx directly and/or through intermediaries makes, offers for sale, sells and/or advertises (including through a website) products and services in the State of Texas and in this Judicial District. Xilinx committed acts of patent infringement alleged herein within the State of Texas and, more particularly, within this Judicial District. Xilinx purposefully and voluntarily placed its infringing products into the stream of commerce with the expectation that they will be purchased by consumers in the State of Texas and in this Judicial District. These infringing products have been and continue to be purchased by consumers in the state of Texas and in this Judicial District.

6. Venue is proper in this judicial district pursuant to 28 U.S.C. §§ 1391(b) and (c) and §1400(b).

### **ASSERTED PATENTS**

7. On May 28, 2002, United States Patent No. 6,397,240 ("the '240 Patent," entitled "Programmable accelerator for a programmable processor system") duly and legally issued. The '240 Patent relates to, among other things, a programmable multi-mode accelerator for use with a programmable processor. MOSAID is the exclusive licensee of the '240 Patent and is the current owner of all rights to enforce the '240 Patent with respect to the Defendant. A copy of the '240

Patent is attached as Exhibit A to Plaintiff's original Complaint.

8. On November 19, 1996, United States Patent No. 5,577,230 ("the '230 Patent," entitled "Apparatus and Method for Computer Processing Using an Enhanced Harvard Architecture Utilizing Dual Memory Buses and the Arbitration for Data/Instruction Fetch") duly and legally issued. The '230 Patent relates to, among other things, computer processors and memory architectures. MOSAID is the exclusive licensee of the '230 Patent and is the current owner of all rights to enforce the '230 Patent with respect to the Defendant. A copy of the '230 Patent is attached as Exhibit B to Plaintiff's original Complaint.

9. On March 3, 1998, United States Patent No. 5,724,505 ("the '505 Patent," entitled "Apparatus and Method for Real-Time Program Monitoring via a Serial Interface") duly and legally issued. The '505 Patent relates to, among other things, monitoring computer program execution in microprocessor devices. MOSAID is the exclusive licensee of the '505 Patent and is the current owner of all rights to enforce the '505 Patent with respect to the Defendant. A copy of the '505 Patent is attached as Exhibit C to Plaintiff's original Complaint.

10. On September 28, 1999, United States Patent No. 5,958,036 ("the '036 Patent," entitled "Circuit for Arbitrating Interrupts with Programmable Priority Levels") duly and legally issued. The '036 Patent relates to, among other things, interrupt priority arbitration in computer devices. MOSAID is the exclusive licensee of the '036 Patent and is the current owner of all rights to enforce the '036 Patent with respect to the Defendant. A copy of the '036 Patent is attached as Exhibit D to Plaintiff's original Complaint.

11. On July 3, 2001, United States Patent No. 6,256,725 ("the '725 Patent," entitled "Shared Datapath Processor Utilizing Stack-Based and Register-Based Storage Spaces") duly and legally issued. The '725 Patent relates to, among other things, computer processor architectures.

MOSAID is the exclusive licensee of the '725 Patent and is the current owner of all rights to enforce the '725 Patent with respect to the Defendant. A copy of the '725 Patent is attached as Exhibit E to Plaintiff's original Complaint.

12. The '240 Patent, '230 Patent, '505 Patent, '036 Patent, and '725 Patent are collectively referred to as the "Asserted Patents."

### **GENERAL ALLEGATIONS**

13. Defendant Xilinx has directly infringed and continues to directly infringe one or more of the Asserted Patents by making, using, offering to sell, selling, or importing devices within the scope of one or more of the claims of the Asserted Patents. The infringing devices include, but are not limited to, processors, mobile products, microcontrollers, communications equipment, and system-on-chip devices.

14. Defendant Xilinx has indirectly infringed and continues to indirectly infringe one or more of the Asserted Patents by contributing to and actively inducing infringement of one or more of the claims of the Asserted Patents. Defendant Xilinx has notice of the Asserted Patents. The infringing devices are known by Defendant Xilinx to be especially made or especially adapted for use in an infringement of one or more of the Asserted Patents, and are not staple articles or commodities of commerce suitable for substantial noninfringing uses. Defendant Xilinx contributes to the infringement of one or more of the Asserted Patents by selling or importing the infringing devices to third parties, such as end-users, resellers, partners, and distributors who incorporate the infringing devices into their products and/or practice one or more claims of the Asserted Patents. Defendant Xilinx actively induces infringement by encouraging the use of the infringing devices by the third parties in ways that infringe one or more of the claims of the Asserted Patents. Defendant Xilinx knew or should have known that such encouragement would

induce infringement. Such induced and/or contributory infringement has occurred at least since Defendant Xilinx became aware of the Asserted Patents.

15. As a result, Defendant Xilinx has been and still is infringing one or more of the claims of the Asserted Patents as defined by 35 U.S.C. § 271. MOSAID has suffered damage by reason of such infringement and will continue to suffer additional damage until this Court enjoins the infringing conduct.

16. Defendant Xilinx has continued its infringing activities after receiving notice of the Asserted Patents despite the objectively substantial and high likelihood that it is liable for infringement of valid patent rights, and, therefore, such infringement is willful, entitling MOSAID to the recovery of increased damages under 35 U.S.C. § 284.

17. Infringement of one or more of the Asserted Patents by Defendant Xilinx renders this an "exceptional case" justifying an award of attorneys' fees and costs to MOSAID under 35 U.S.C. § 285.

18. MOSAID believes that Defendant Xilinx will continue to infringe one or more of the Asserted Patents unless enjoined by this Court. Such infringing activity causes MOSAID irreparable harm and will continue to cause such harm without the issuance of an injunction.

## **COUNT ONE**

### **Xilinx's Infringement of the '240 Patent**

19. MOSAID incorporates by reference each of the foregoing paragraphs of this Complaint as though fully set forth herein.

20. Defendant Xilinx has been and is still directly infringing one or more of the claims of the '240 Patent. Defendant Xilinx's infringing acts include, but are not limited to, making, using, offering to sell, selling, or importing devices within the scope of one or more of the claims of the

'240 Patent, including but not limited to the Xilinx Virtex-5 FPGAs. Defendant Xilinx has been and is still contributing to the infringement of and/or actively inducing third parties, such as end users, that directly infringe one or more of the claims of the '240 Patent. Defendant Xilinx's actions are in violation of one or more of the provisions of 35 U.S.C. § 271(a), (b), (c), (t), and (g).

## **COUNT TWO**

### **Xilinx's Infringement of the '230 Patent**

21. MOSAID incorporates by reference each of the foregoing paragraphs of this Complaint as though fully set forth herein.

22. Defendant Xilinx has been and is still directly infringing one or more of the claims of the '230 Patent. Defendant Xilinx's infringing acts include, but are not limited to, making, using, offering to sell, selling, or importing devices within the scope of one or more of the claims of the '230 Patent, including but not limited to the Zynq-7000 Family (including Z-7010, Z-7020, Z-7030 and Z-7040) Extensible Processing Platform and the Virtex-5 FPGAs with PowerPC 440 Processor. Defendant Xilinx has been and is still contributing to the infringement of and/or actively inducing third parties, such as end users, that directly infringe one or more of the claims of the '230 Patent. Defendant Xilinx's actions are in violation of one or more of the provisions of 35 U.S.C. § 271(a), (b), (c), (t), and (g).

## **COUNT THREE**

### **Xilinx's Infringement of the '505 Patent**

23. MOSAID incorporates by reference each of the foregoing paragraphs of this Complaint as though fully set forth herein.

24. Defendant Xilinx has been and is still directly infringing one or more of the claims of the

'505 Patent. Defendant Xilinx's infringing acts include, but are not limited to, making, using, offering to sell, selling, or importing devices within the scope of one or more of the claims of the '505 Patent, including but not limited to the Xilinx MicroBlaze Processor and the Zynq-7000 Family (including Z-7010, Z-7020, Z-7030 and Z-7040) Extensible Processing Platform. Defendant Xilinx has been and is still contributing to the infringement of and/or actively inducing third parties, such as end users, that directly infringe one or more of the claims of the '505 Patent. Defendant Xilinx's actions are in violation of one or more of the provisions of 35 U.S.C. § 271(a), (b), (c), (f), and (g).

#### **COUNT FOUR**

##### **Xilinx's Infringement of the '036 Patent**

27. MOSAID incorporates by reference each of the foregoing paragraphs of this Complaint as though fully set forth herein.

28. Defendant Xilinx has been and is still directly infringing one or more of the claims of the '036 Patent. Defendant Xilinx's infringing acts include, but are not limited to, making, using, offering to sell, selling, or importing devices within the scope of one or more of the claims of the '036 Patent, including but not limited to the Xilinx Spartan 3 FPGAs, Virtex-2 FPGAs, Virtex-4 FPGAs and Virtex-5 FPGAs. Defendant Xilinx has been and is still contributing to the infringement of and/or actively inducing third parties, such as end users, that directly infringe one or more of the claims of the '036 Patent. Defendant Xilinx's actions are in violation of one or more of the provisions of 35 U.S.C. § 271(a), (b), (c), (t), and (g).

#### **COUNT FIVE**

##### **Xilinx's Infringement of the '725 Patent**

31. MOSAID incorporates by reference each of the foregoing paragraphs of this Complaint

as though fully set forth herein.

32. Defendant Xilinx has been and is still directly infringing one or more of the claims of the '725 Patent. Defendant Xilinx's infringing acts include, but are not limited to, making, using, offering to sell, selling, or importing devices within the scope of one or more of the claims of the '725 Patent, including but not limited to the Zynq-7000 Family (including Z-7010, Z-7020, Z-7030 and Z-7040) Extensible Processing Platform. Defendant Xilinx has been and is still contributing to the infringement of and/or actively inducing third parties, such as end users, that directly infringe one or more of the claims of the '725 Patent. Defendant Xilinx's actions are in violation of one or more of the provisions of 35 U.S.C. § 271(a), (b), (c), (t), and (g).

#### **PRAYER FOR RELIEF**

WHEREFORE, MOSAID prays for entry of judgment and an order that:

- (1) Defendant Xilinx has infringed one or more of the claims of the Asserted Patents, either literally and/or under the doctrine of equivalents;
- (2) Defendant Xilinx account for and pay to MOSAID all damages, assessment of interest, and costs of MOSAID caused by Defendants' patent infringement;
- (3) MOSAID be granted permanent injunctive relief pursuant to 35 U.S.C. § 283 enjoining Defendant Xilinx, its officers, agents, servants, employees, affiliates and those persons in active concert of participation with Xilinx from further acts of patent infringement of the Asserted Patents;
- (4) In the event the Court determines that it will not enter injunctive relief, Defendant Xilinx continues to pay royalties to MOSAID for its infringement of the Asserted Patents on a going-forward basis;
- (5) Defendant Xilinx account for and pay for increased damages for willful



infringement under 35 U.S.C. § 284;

(6) Costs and attorney's fees be awarded to MOSAID, as this is an exceptional case under 35 U.S.C. § 285; and

(7) MOSAID be granted such further and additional relief as the Court may deem just and proper under the circumstances.

### **DEMAND FOR JURY TRIAL**

MOSAID demands trial by jury on all claims and issues so triable.

February 27, 2013

Respectfully submitted,

OF COUNSEL:

Steven G. Hill  
Georgia Bar No. 354658  
E-Mail: [sgh@hkw-law.com](mailto:sgh@hkw-law.com)  
Douglas R. Kertscher  
E-Mail: [drk@hkw-law.com](mailto:drk@hkw-law.com)  
Georgia Bar No. 416265  
HILL, KERTSCHER & WHARTON, LLP  
3350 Riverwood Parkway, Suite 800  
Atlanta, Georgia 30339  
770.953.0995

/s/ Elizabeth L. DeRieux  
S. Calvin Capshaw  
Texas State Bar No. 03783900  
E-Mail: [ccapshaw@capshawlaw.com](mailto:ccapshaw@capshawlaw.com)  
Elizabeth L. DeRieux  
Texas State Bar No. 05770585  
E-mail: [ederieux@capshawlaw.com](mailto:ederieux@capshawlaw.com)  
D. Jeffrey Rambin  
Texas State Bar No. 00791478  
[jrambin@capshawlaw.com](mailto:jrambin@capshawlaw.com)  
CAPSHAW DERIEUX, LLP  
114 E. Commerce Ave.  
Gladewater, Texas 75647  
Telephone: (903) 236-9800  
Facsimile: (903) 236-8787

*Attorneys for Plaintiff Mosaid  
Technologies Inc.*

**CERTIFICATE OF SERVICE**

I certify that on February 27, 2013, all counsel who are deemed to have consented to electronic service are being served with a copy of this document by the Court's Electronic Filing System, pursuant to Local Rule CV-5(a)(3)(A).

/s/ Elizabeth L. DeRieux

Elizabeth L. DeRieux